

Title (en)
AIRCRAFT HAVING ROTOR-TO-WING CONVERSION CAPABILITIES

Title (de)
FLUGZEUG MIT FÄHIGKEITEN ZUR ROTOR-ZU-FLÜGEL-UMWANDLUNG

Title (fr)
AÉRONEF AYANT DES CAPACITÉS DE CONVERSION ROTOR/AILE

Publication
EP 3290338 A1 20180307 (EN)

Application
EP 17163295 A 20170328

Priority
US 201615251128 A 20160830

Abstract (en)
A tail sitter aircraft (10) includes a fuselage (12) having a forward portion (14) and an aft portion (16). The forward portion (14) of the fuselage (12) includes first and second rotor stations (18, 20). A first rotor assembly (22) is positioned proximate the first rotor station (18). A second rotor assembly (24) is positioned proximate the second rotor station (20). A tailboom assembly (26) extends from the aft portion (16) of the fuselage (12). The tailboom assembly (26) includes a plurality of landing members (28). In a vertical takeoff and landing mode of the aircraft (10), the first and second rotor assemblies (22, 24) rotate about the fuselage (12) to provide vertical thrust. In a forward flight mode of the aircraft, the first rotor assembly (22) rotates about the fuselage (12) to provide forward thrust and the second rotor assembly (24) is non-rotatable about the fuselage (12) forming wings to provide lift.

IPC 8 full level
B64C 29/02 (2006.01)

CPC (source: EP US)
B64C 25/52 (2013.01 - US); **B64C 27/24** (2013.01 - EP US); **B64C 27/50** (2013.01 - EP US); **B64C 27/54** (2013.01 - US);
B64C 29/02 (2013.01 - EP US); **B64C 3/56** (2013.01 - EP US)

Citation (search report)
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• [YA] US 2006011777 A1 20060119 - ARLTON PAUL E [US], et al
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WO2024013392A1; US11117655B2; DE102022117766A1

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